

Synthesis and applications of nano-MgO and composite environmental remediation: a review

Environmental Chemistry Letters

19, 4415-4454

DOI: [10.1007/s10311-021-01299-4](https://doi.org/10.1007/s10311-021-01299-4)

Citation Report

#	ARTICLE	IF	CITATIONS
1	Engineered magnetic oxides nanoparticles as efficient adsorbents for wastewater remediation: a review. <i>Environmental Chemistry Letters</i> , 2022, 20, 519-562.	16.2	28
2	Comparative studies of the biological efficacies of Ag and Ag-MgO nanocomposite formed by the green synthesis route. <i>Inorganic Chemistry Communication</i> , 2022, 135, 109082.	3.9	5
3	Characteristics of MgO/PCL/PVP antibacterial nanofiber membranes produced by electrospinning technology. <i>Surfaces and Interfaces</i> , 2022, 28, 101661.	3.0	13
4	Epitaxial growth of aligned MgO nanowire arrays on a single crystalline substrate. <i>Dalton Transactions</i> , 2022, 51, 3740-3746.	3.3	2
5	Simultaneous removal of heavy metals and dyes in water using a MgO-coated Fe ₃ O ₄ nanocomposite: Role of micro-mixing effect induced by bubble generation. <i>Chemosphere</i> , 2022, 294, 133788.	8.2	7
6	The selective removal of Congo red using dumbbell-shaped hierarchically porous Ca-Mg mixed oxide. <i>Applied Surface Science Advances</i> , 2022, 8, 100221.	6.8	2
7	The effect of Cr alloying with Pt/C as an electrocatalyst for low temperature PEM fuel cell. <i>Energy Sources, Part A: Recovery, Utilization and Environmental Effects</i> , 2022, 44, 3239-3252.	2.3	3
8	Biopolymer-supported TiO ₂ as a sustainable photocatalyst for wastewater treatment: a review. <i>Environmental Chemistry Letters</i> , 2022, 20, 3071-3098.	16.2	50
9	Ultrasound assisted impregnation of platinum on carbon for ORR activity in PEM fuel cell. <i>International Journal of Ambient Energy</i> , 2022, 43, 8239-8247.	2.5	0
10	Estimation of in vivo toxicity of MgO/ZnO core/shell nanoparticles synthesized by eco-friendly non-thermal plasma technology. <i>Applied Nanoscience (Switzerland)</i> , 0, , .	3.1	5
11	Food additives for the synthesis of metal nanoparticles: a review. <i>Environmental Chemistry Letters</i> , 2023, 21, 525-538.	16.2	8
12	Catalytic nanomedicine: a brief review of bionanocatalysts. <i>Nanomedicine</i> , 2022, 17, 1131-1156.	3.3	5
13	Green synthesis of magnesium oxide nanosheets by using <i>Citrullus colocynthis</i> fruit extract and its use in biofuel production. <i>Biomass and Bioenergy</i> , 2022, 167, 106640.	5.7	2
14	Nanoparticles of magnesium oxyhydroxide and copper oxide: Synthesis and evaluation of their in vitro fungicidal activity on the fungus <i>Omphalia</i> sp.. <i>Inorganic Chemistry Communication</i> , 2022, 146, 110085.	3.9	4
15	Synthesis and characterization of MgO nanostructures: A comparative study on the effect of preparation route. <i>Materials Chemistry and Physics</i> , 2023, 294, 127036.	4.0	7
16	Metal Oxide Nanoparticles: Review of Synthesis, Characterization and Biological Effects. <i>Journal of Functional Biomaterials</i> , 2022, 13, 274.	4.4	26
17	Removal of bromophenol blue dye from water onto biomass, activated carbon, biochar, polymer, nanoparticle, and composite adsorbents. <i>Biomass Conversion and Biorefinery</i> , 0, , .	4.6	7
18	Synthesis of high purity magnesia MgO from Algerian dolomite ore. <i>Journal of Mining and Metallurgy, Section B: Metallurgy</i> , 2023, , 5-5.	0.8	0

#	ARTICLE	IF	CITATIONS
19	Novel Synthesis of Nano Mg(OH) ₂ by Means of Hydrothermal Method with Different Surfactants. <i>Nanomaterials</i> , 2023, 13, 454.	4.1	4
20	Determination of technological properties of wood plastic nanocomposites produced by flat press reinforced with nano MgO. <i>Journal of Composite Materials</i> , 2023, 57, 1641-1651.	2.4	2
21	Enzyme-free carbon dots@MgO nanocomposite as an efficient sensor for on-site detection and degradation of paraoxon toxins. <i>Carbon</i> , 2023, 209, 118003.	10.3	1
22	Nanostructured systems based on magnesium oxide: the synthesis and application in sorption and catalytic processes. <i>Russian Chemical Bulletin</i> , 2023, 72, 335-344.	1.5	1
23	Nanofabrication of Metals and Their Compounds for Effective Medicinal and Environmental Applications (A Review). <i>Russian Journal of General Chemistry</i> , 2023, 93, 635-665.	0.8	4
24	Bio-inspired synthesis and characterizations of groundnut shells-mediated Cu/CuO/Cu ₂ O nanoparticles for anticancer, antioxidant, and DNA damage activities. <i>Journal of Sol-Gel Science and Technology</i> , 2023, 106, 737-747.	2.4	8
25	Sorption and reduction of hexavalent uranium by natural and modified silicate minerals: A review. <i>Environmental Chemistry Letters</i> , 2023, 21, 2441-2470.	16.2	10
27	Recovery of ultra-high purity reactive magnesia from reject brine and its comparison with commercial magnesia. <i>Desalination</i> , 2023, 566, 116909.	8.2	1
28	First principle and experimental study on Al _x Mg _{1-x} O compound thin films for electronic, optical, and antibacterial activity. <i>Solid State Communications</i> , 2023, 372, 115302.	1.9	0
29	Magnesium oxyhydroxide nanoparticles: Synthesis, characterization and evaluation of their genotoxicity in <i>Vicia faba</i> L. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2023, 298, 116896.	3.5	0
30	From waste to wealth: Using MgO nanoparticles to transform ammonium into a valuable resource. <i>Journal of Water Process Engineering</i> , 2023, 56, 104331.	5.6	1
32	Chitosan/metal organic frameworks for environmental, energy, and bio-medical applications: a review. <i>Materials Advances</i> , 2023, 4, 5920-5947.	5.4	3
33	Improved Stability and Spectral Photophysical Properties of poly (9, 9-di-n-1 octylfluorenyl-2,7-diyl) /MgO Nanohybrid Films. <i>Arabian Journal for Science and Engineering</i> , 0, , .	3.0	1
34	MgO-ZnO nanoparticle as an efficient photocatalyst in the synthesis of substituted chromeno[4, 3-b]chromenes as effective drugs in gastrointestinal cancer therapy. <i>Inorganic Chemistry Communication</i> , 2024, 160, 111894.	3.9	0
35	Maximizing heat transfer and minimizing entropy generation in concentric cylinders with CuO MgO TiO ₂ nanoparticles. <i>Chinese Journal of Physics</i> , 2024, 89, 493-503.	3.9	1
36	Development of innovative and green adsorbents for in situ cleanup of fluoride-polluted groundwater: Mechanisms and field-scale studies. <i>Chemosphere</i> , 2024, 350, 141035.	8.2	0
37	Fabrication of Efficient Na, B, and O Codoped g-C ₃ N ₄ /Polypyrrole-Carbon Black 3D Beads for Expedient Degradation of Tetracycline via Percarbonate Activation. <i>Industrial & Engineering Chemistry Research</i> , 2024, 63, 2605-2618.	3.7	0
38	Photocatalytic sponges for wastewater treatment, carbon dioxide reduction, and hydrogen production: a review. <i>Environmental Chemistry Letters</i> , 2024, 22, 635-656.	16.2	1

#	ARTICLE	IF	CITATIONS
40	Removal of fluoride ions from water using MgO-based materials with special emphasis on MgO/PPy nanocomposites: A review. Journal of Molecular Liquids, 2024, 399, 124473.	4.9	0